

QuantiNova® LNA® PCR Focus Panels (Rotor-Gene® Format)

Mouse cAMP / Calcium Signaling PathwayFinder

Cat. no. 249950 SBMM-066ZR

For study focus gene expression analysis

Shipping and storage

QuantiNova LNA PCR Focus Panels are shipped at ambient temperature. Immediately upon receipt, they should be stored at 2–8°C for short term storage or at –30°C to –15°C for long time storage. Under these conditions, all components are stable for at least 12 months.

Note: Open the package and store the products appropriately immediately upon receipt.

For optimal performance, QuantiNova LNA PCR Focus Panels should be used together with the QuantiNova Reverse Transcription Kit for cDNA synthesis and the QuantiNova SYBR® Green PCR Kit (Mastermix) for PCR.

Panel layout (Rotor-Gene): QuantiNova LNA PCR Focus Panel

The 96 real-time assays in the Rotor-Gene format are located in wells 1–96 of the Rotor-Disc® (plate A1–A12=Rotor-Disc 1–12, plate B1–B12=Rotor-Disc 13–24, etc.). To maintain data analysis compatibility, wells 97–100 do not contain real-time assays but will contain master mix to account for weight balance. Refer to the QuantiNova LNA PCR System Handbook at www.qiagen.com for further details.

	1	2	3	4	5	6	7	8	9	10	11	12
A	Adrb1	Ahr	Amd1	Areg	Atf3	Bcl2	Bdnf	Brca1	Calb1	Calb2	Calcr1	Calm1
B	Calr	Ccna1	Ccnd1	Cdk5	Cdkn2b	Cga	Chga	Cnn1	Creb1	Crem	Crh	Ccn1
C	Ddit3	Dusp1	Egr1	Egr2	Eno2	Fgf6	Fos	Fosb	Gcg	Gem	Hk2	Hspa4
D	Hspa5	Il2	Il6	Inhba	Junb	Jund	Kcna5	Krtap14	Ldha	Maf	Mif	Ncam1
E	Nf1	Nas2	Npy	Pck2	Pcna	Penk	Per1	Plat	Pln	Pmaip1	Pou1f1	Pou2af1
F	Ppp1r15a	Ppp2ca	Prkar1a	Prl	Ptgs2	Rb1	S100a8	S100a9	S100g	Scg2	Sgk1	Slc18a1
G	Sod2	Srf	Sat	Satr2	Stat3	Tacr1	Tgfb3	Th	Thbs1	Tnf	Vcl	Vip
H	Actb	B2m	Gapdh	Gusb	Hsp90ab1	MGDC	QIC	QIC	QIC	PPC	PPC	PPC

Gene table: QuantiNova LNA PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	SBM1062089	ENSMUST00000038949.5	Adrb1	ENSMUSG0000035283	adrenergic receptor, beta 1 Source MGI Symbol Acc MGI 87937
A02	SBM0733281	ENSMUST00000110811.2	Ahr	ENSMUSG0000019256	aryl-hydrocarbon receptor Source MGI Symbol Acc MGI 105043
A03	SBM1075585	ENSMUST00000213620.1	Amd1	ENSMUSG0000075232	S-adenosylmethionine decarboxylase 1 Source MGI Symbol Acc MGI 88004
A04	SBM0693356	ENSMUST00000031325.5	Areg	ENSMUSG0000029378	amphiregulin Source MGI Symbol Acc MGI 88068
A05	SBM0766362	ENSMUST00000131854.1	Atf3	ENSMUSG0000026628	activating transcription factor 3 Source MGI Symbol Acc MGI 109384
A06	SBM0876340	ENSMUST00000189999.1	Bcl2	ENSMUSG0000057329	B cell leukemia/lymphoma 2 Source MGI Symbol Acc MGI 88138
A07	SBM0985592	ENSMUST00000111042.2	Bdnf	ENSMUSG0000048482	brain derived neurotrophic factor Source MGI Symbol Acc MGI 88145
A08	SBM0935779	ENSMUST00000142086.2	Brca1	ENSMUSG0000017146	breast cancer 1, early onset Source MGI Symbol Acc MGI 104537
A09	SBM1013033	ENSMUST00000029876.1	Calb1	ENSMUSG0000028222	calbindin 1 Source MGI Symbol Acc MGI 88248
A10	SBM0801046	ENSMUST00000212297.1	Calb2	ENSMUSG0000003657	calbindin 2 Source MGI Symbol Acc MGI 101914
A11	SBM1039763	ENSMUST00000099944.3	Calcr1	ENSMUSG0000059588	calcitonin receptor-like Source MGI Symbol Acc MGI 1926944
A12	SBM0858583	ENSMUST00000153524.1	Calm1	ENSMUSG0000001175	calmodulin 1 Source MGI Symbol Acc MGI 88251
B01	SBM0796075	ENSMUST00000003912.6	Calr	ENSMUSG0000003814	calreticulin Source MGI Symbol Acc MGI 88252
B02	SBM0877611	ENSMUST00000197238.4	Ccna1	ENSMUSG0000027793	cyclin A1 Source MGI Symbol Acc MGI 108042
B03	SBM0706150	ENSMUST00000093962.4	Ccnd1	ENSMUSG0000070348	cyclin D1 Source MGI Symbol Acc MGI 88313
B04	SBM0737657	ENSMUST00000198990.1	Cdk5	ENSMUSG0000028969	cyclin-dependent kinase 5 Source MGI Symbol Acc MGI 101765
B05	SBM1002560	ENSMUST00000097981.5	Cdkn2b	ENSMUSG0000073802	cyclin dependent kinase inhibitor 2B Source MGI Symbol Acc MGI 104737
B06	SBM0915414	ENSMUST00000135871.7	Cga	ENSMUSG0000028298	glycoprotein hormones, alpha subunit Source MGI Symbol Acc MGI 88390
B07	SBM0884330	ENSMUST00000021610.6	Chga	ENSMUSG0000021194	chromogranin A Source MGI Symbol Acc MGI 88394
B08	SBM0850311	ENSMUST00000001384.5	Cnn1	ENSMUSG0000001349	calponin 1 Source MGI Symbol Acc MGI 104979
B09	SBM0735214	ENSMUST00000188855.6	Creb1	ENSMUSG0000025958	cAMP responsive element binding protein 1 Source MGI Symbol Acc MGI 88494
B10	SBM1037952	ENSMUST00000147138.7	Crem	ENSMUSG0000063889	cAMP responsive element modulator Source MGI Symbol Acc MGI 88495
B11	SBM0920247	ENSMUST00000061294.4	Crh	ENSMUSG0000049796	corticotropin releasing hormone Source MGI Symbol Acc MGI 88496
B12	SBM0735944	ENSMUST00000029846.4	Ccn1	ENSMUSG0000028195	cellular communication network factor 1 Source MGI Symbol Acc MGI 88613
C01	SBM0724182	ENSMUST00000139091.1	Ddit3	ENSMUSG0000025408	DNA-damage inducible transcript 3 Source MGI Symbol Acc MGI 109247
C02	SBM1019762	ENSMUST00000126178.1	Dusp1	ENSMUSG0000024190	dual specificity phosphatase 1 Source MGI Symbol Acc MGI 105120
C03	SBM0782056	ENSMUST00000064795.5	Egr1	ENSMUSG0000038418	early growth response 1 Source MGI Symbol Acc MGI 95295
C04	SBM0767336	ENSMUST00000145936.1	Egr2	ENSMUSG0000037868	early growth response 2 Source MGI Symbol Acc MGI 95296
C05	SBM0953479	ENSMUST00000112476.7	Eno2	ENSMUSG0000004267	enolase 2, gamma neuronal Source MGI Symbol Acc MGI 95394
C06	SBM1066026	ENSMUST00000000187.6	Fgf6	ENSMUSG0000000183	fibroblast growth factor 6 Source MGI Symbol Acc MGI 95520
C07	SBM0977461	ENSMUST00000134311.1	Fos	ENSMUSG0000021250	FBJ osteosarcoma oncogene Source MGI Symbol Acc MGI 95574
C08	SBM0785515	ENSMUST00000207334.1	Fosb	ENSMUSG0000003545	FBJ osteosarcoma oncogene B Source MGI Symbol Acc MGI 95575
C09	SBM0711962	ENSMUST00000155624.1	Gcg	ENSMUSG0000000394	glucagon Source MGI Symbol Acc MGI 95674
C10	SBM1072904	ENSMUST00000108304.8	Gem	ENSMUSG0000028214	GTP binding protein (gene overexpressed in skeletal muscle) Source MGI Symbol Acc MGI 99844
		ENSMUST000000		ENSMUSG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	SBM1068583	000642.10	Hk2	000000628	hexokinase 2 Source MGI Symbol Acc MGI 1315197
C12	SBM0909157	ENSMUST00000020630.7	Hspa4	ENSMUSG0000020361	heat shock protein 4 Source MGI Symbol Acc MGI 1342292
D01	SBM1001113	ENSMUST00000145466.1	Hspa5	ENSMUSG0000026864	heat shock protein 5 Source MGI Symbol Acc MGI 95835
D02	SBM0797059	ENSMUST00000029275.5	Il2	ENSMUSG0000027720	interleukin 2 Source MGI Symbol Acc MGI 96548
D03	SBM0742623	ENSMUST00000026845.11	Il6	ENSMUSG0000025746	interleukin 6 Source MGI Symbol Acc MGI 96559
D04	SBM0694869	ENSMUST00000164993.1	Inhba	ENSMUSG0000041324	inhibin beta-A Source MGI Symbol Acc MGI 96570
D05	SBM0879318	ENSMUST00000064922.6	Junb	ENSMUSG0000052837	jun B proto-oncogene Source MGI Symbol Acc MGI 96647
D06	SBM0895807	ENSMUST00000095267.5	Jund	ENSMUSG0000071076	jun D proto-oncogene Source MGI Symbol Acc MGI 96648
D07	SBM0728811	ENSMUST00000060972.4	Kcna5	ENSMUSG0000045534	potassium voltage-gated channel, shaker-related subfamily, member 5 Source MGI Symbol Acc MGI 96662
D08	SBM1077081	ENSMUST00000099562.3	Krtap14	ENSMUSG0000074928	keratin associated protein 14 Source MGI Symbol Acc MGI 1346079
D09	SBM1042883	ENSMUST000000209984.1	Ldha	ENSMUSG0000063229	lactate dehydrogenase A Source MGI Symbol Acc MGI 96759
D10	SBM0794374	ENSMUST00000069009.6	Maf	ENSMUSG0000055435	avian musculoaponeurotic fibrosarcoma oncogene homolog Source MGI Symbol Acc MGI 96909
D11	SBM0802241	ENSMUST000000218267.1	Mif	ENSMUSG0000033307	macrophage migration inhibitory factor (glycosylation-inhibiting factor) Source MGI Symbol Acc MGI 96982
D12	SBM1225395	ENSMUST000000114476.7	Ncam1	ENSMUSG0000039542	neural cell adhesion molecule 1 Source MGI Symbol Acc MGI 97281
E01	SBM1038616	ENSMUST000000122917.7	Nf1	ENSMUSG0000020716	neurofibromin 1 Source MGI Symbol Acc MGI 97306
E02	SBM0835086	ENSMUST000000208783.1	Nos2	ENSMUSG0000020826	nitric oxide synthase 2, inducible Source MGI Symbol Acc MGI 97361
E03	SBM0865432	ENSMUST00000031843.6	Npy	ENSMUSG0000029819	neuropeptide Y Source MGI Symbol Acc MGI 97374
E04	SBM1060112	ENSMUST000000228921.1	Pck2	ENSMUSG0000040618	phosphoenolpyruvate carboxykinase 2 (mitochondrial) Source MGI Symbol Acc MGI 1860456
E05	SBM0823260	ENSMUST000000140338.1	Pcna	ENSMUSG0000027342	proliferating cell nuclear antigen Source MGI Symbol Acc MGI 97503
E06	SBM0797504	ENSMUST000000133567.1	Penk	ENSMUSG0000045573	preproenkephalin Source MGI Symbol Acc MGI 104629
E07	SBM0874801	ENSMUST000000142392.7	Per1	ENSMUSG0000020893	period circadian clock 1 Source MGI Symbol Acc MGI 1098283
E08	SBM0722468	ENSMUST000000033941.6	Plat	ENSMUSG0000031538	plasminogen activator, tissue Source MGI Symbol Acc MGI 97610
E09	SBM0768889	ENSMUST000000219921.1	Pln	ENSMUSG0000038583	phospholamban Source MGI Symbol Acc MGI 97622
E10	SBM0884842	ENSMUST000000237161.1	Pmaip1	ENSMUSG0000024521	phorbol-12-myristate-13-acetate-induced protein 1 Source MGI Symbol Acc MGI 1930146
E11	SBM0674401	ENSMUST000000176038.7	Pou1f1	ENSMUSG0000004842	POU domain, class 1, transcription factor 1 Source MGI Symbol Acc MGI 97588
E12	SBM0942490	ENSMUST000000214322.1	Pou2af1	ENSMUSG0000032053	POU domain, class 2, associating factor 1 Source MGI Symbol Acc MGI 105086
F01	SBM1018214	ENSMUST000000042105.10	Ppp1r15a	ENSMUSG0000040435	protein phosphatase 1, regulatory subunit 15A Source MGI Symbol Acc MGI 1927072
F02	SBM0974754	ENSMUST000000020608.2	Ppp2ca	ENSMUSG0000020349	protein phosphatase 2 (formerly 2A), catalytic subunit, alpha isoform Source MGI Symbol Acc MGI 1321159
F03	SBM0795279	ENSMUST000000049527.6	Prkar1a	ENSMUSG0000020612	protein kinase, cAMP dependent regulatory, type I, alpha Source MGI Symbol Acc MGI 104878
F04	SBM0899700	ENSMUST000000110369.9	Prl	ENSMUSG0000021342	prolactin Source MGI Symbol Acc MGI 97762
F05	SBM0782881	ENSMUST000000035065.8	Ptgs2	ENSMUSG0000032487	prostaglandin-endoperoxide synthase 2 Source MGI Symbol Acc MGI 97798
F06	SBM0795530	ENSMUST000000168495.1	Rb1	ENSMUSG0000022105	RB transcriptional corepressor 1 Source MGI Symbol Acc MGI 97874
F07	SBM0822839	ENSMUST000000198156.1	S100a8	ENSMUSG0000056054	S100 calcium binding protein A8 (calgranulin A) Source MGI Symbol Acc MGI 88244
F08	SBM0735988	ENSMUST000000117167.1	S100a9	ENSMUSG0000056071	S100 calcium binding protein A9 (calgranulin B) Source MGI Symbol Acc MGI 1338947
F09	SBM0997240	ENSMUST000000038769.2	S100g	ENSMUSG0000040808	S100 calcium binding protein G Source MGI Symbol Acc MGI 104528
F10	SBM0844402	ENSMUST000000185234.1	Scg2	ENSMUSG0000050711	secretogranin II Source MGI Symbol Acc MGI 103033

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	SBM0909072	ENSMUST00000126560.1	Sgk1	ENSMUSG0000019970	serum/glucocorticoid regulated kinase 1 Source MGI Symbol Acc MGI 1340062
F12	SBM0868719	ENSMUST00000037478.12	Slc18a1	ENSMUSG0000036330	solute carrier family 18 (vesicular monoamine), member 1 Source MGI Symbol Acc MGI 106684
G01	SBM1063571	ENSMUST00000233791.1	Sod2	ENSMUSG0000006818	superoxide dismutase 2, mitochondrial Source MGI Symbol Acc MGI 98352
G02	SBM0804646	ENSMUST00000015749.6	Srf	ENSMUSG0000015605	serum response factor Source MGI Symbol Acc MGI 106658
G03	SBM0900431	ENSMUST00000004480.4	Sst	ENSMUSG0000004366	somatostatin Source MGI Symbol Acc MGI 98326
G04	SBM0791847	ENSMUST00000146390.2	Sstr2	ENSMUSG0000047904	somatostatin receptor 2 Source MGI Symbol Acc MGI 98328
G05	SBM0821931	ENSMUST00000103114.7	Stat3	ENSMUSG0000004040	signal transducer and activator of transcription 3 Source MGI Symbol Acc MGI 103038
G06	SBM0836174	ENSMUST00000203775.1	Tacr1	ENSMUSG0000030043	tachykinin receptor 1 Source MGI Symbol Acc MGI 98475
G07	SBM1022458	ENSMUST00000003687.7	Tgfb3	ENSMUSG0000021253	transforming growth factor, beta 3 Source MGI Symbol Acc MGI 98727
G08	SBM0766276	ENSMUST00000000219.9	Th	ENSMUSG0000000214	tyrosine hydroxylase Source MGI Symbol Acc MGI 98735
G09	SBM0895247	ENSMUST00000142588.1	Thbs1	ENSMUSG0000040152	thrombospondin 1 Source MGI Symbol Acc MGI 98737
G10	SBM0788439	ENSMUST00000025263.14	Tnf	ENSMUSG0000024401	tumor necrosis factor Source MGI Symbol Acc MGI 104798
G11	SBM1054485	ENSMUST00000022369.8	Vcl	ENSMUSG0000021823	vinculin Source MGI Symbol Acc MGI 98927
G12	SBM1015608	ENSMUST00000217331.1	Vip	ENSMUSG0000019772	vasoactive intestinal polypeptide Source MGI Symbol Acc MGI 98933
H01	SBM1220560	ENSMUST00000100497.10	Actb	ENSMUSG00000029580	actin, beta Source MGI Symbol Acc MGI 87904
H02	SBM0675336	ENSMUST00000102476.4	B2m	ENSMUSG00000060802	beta-2 microglobulin Source MGI Symbol Acc MGI 88127
H03	SBM1220562	ENSMUST00000117757.8	Gapdh	ENSMUSG0000057666	glyceraldehyde-3-phosphate dehydrogenase Source MGI Symbol Acc MGI 95640
H04	SBM1220563	ENSMUST00000026613.13	Gusb	ENSMUSG0000025534	glucuronidase, beta Source MGI Symbol Acc MGI 95872
H05	SBM1220564	ENSMUST00000166469.7	Hsp90ab1	ENSMUSG0000023944	heat shock protein 90 alpha (cytosolic), class B member 1 Source MGI Symbol Acc MGI 96247
H06	SBM1218554	Sybr_MGDC	MGDC	Sybr_MGDC	Mouse Genomic DNA Contamination
H07	SBH1218551	Sybr_QIC	QIC	Sybr_QIC	QuantiNova Internal Control
H08	SBH1218551	Sybr_QIC	QIC	Sybr_QIC	QuantiNova Internal Control
H09	SBH1218551	Sybr_QIC	QIC	Sybr_QIC	QuantiNova Internal Control
H10	SBH1218550	Sybr_PPC	PPC	Sybr_PPC	Positive PCR Control
H11	SBH1218550	Sybr_PPC	PPC	Sybr_PPC	Positive PCR Control
H12	SBH1218550	Sybr_PPC	PPC	Sybr_PPC	Positive PCR Control

Related products

Product	Contents	Cat. no.
QuantiNova LNA PCR QC Panel	These panels are designed to assess the quality of RNA samples before characterization using QuantiNova LNA PCR Focus Panels; available in 96-well, 384-well, and Rotor-Disc 100 formats	249940
QuantiNova Reverse Transcription Kit (10)*	For 10 x 20 μ l reactions: 20 μ l 8x gDNA Removal Mix, 10 μ l Reverse Transcription Enzyme, 40 μ l Reverse Transcription Mix (containing RT primers), 20 μ l Internal Control RNA, 1.9 ml RNase-Free Water	205410
QuantiNova SYBR Green RT-PCR Kit (100)*	For 100 x 20 μ l reactions: 1 ml QuantiNova SYBR Green RT-PCR Master Mix, 20 μ l QuantiNova SYBR Green RT Mix, 20 μ l Internal Control RNA, 500 μ l Yellow Template Dilution Buffer, 250 μ l ROX Reference Dye, 1.9 μ l RNase-Free Water	208152
QuantiNova SYBR Green PCR Kit (100)*	For 100 x 20 μ l reactions: 1 ml 2x QuantiNova SYBR Green PCR Master Mix, 500 μ l QuantiNova Yellow Template Dilution Buffer, 250 μ l QN ROX Reference Dye, 1.9 ml Water	208052

*Larger kit sizes available.

The QuantiNova LNA PCR Focus Panels are intended for molecular biology applications. These products are not intended for the diagnosis, prevention or treatment of a disease.

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